Processing of Slides Post-Printing

Crosslinking

Dry printed slides for at least one day or up to one week. Place labeled slides flat onto plastic trays, array side up, to UV crosslink. Crosslink in Stratalinker set to power of 3000 (300 mjoules). Slides may be blocked immediately or stored in small black boxes, 15 slides/box, in nitrogen chamber. Place crosslinked slides in stainless steel racks for blocking.

Glassware Needed:

- 2L Graduated Cylinder
- 2L Beaker
- 4 Glass Tanks
- 100mL Graduated Cylinder
- 1 Pyrex Dish

Slide blocking

1. Place slides in 4 stainless steel racks at 30 slides per rack and put racks in 4 glass slide tanks
2. Prepare under hood :

   1300 ml 1-methyl-2-pyrrolidinone
   24 gm succinic anhydride
   - let dissolve on plate stirrer, as soon as completely dissolved add:

   60 mL 1 M sodium borate

3. Pour this mixture on slides immediately after solution clarifies.
4. Cover slide tanks and shake at 60 rpm for 20 minutes.
5. Boil water in microwave in the pyrex dish.
6. After 20 minutes of shaking is complete, transfer slides to boiling water for 2 minutes.
7. Transfer the slides to water for 1 minute.
8. Centrifuge the slides for 5 minute at 1000 rpm to dry.
9. Transfer the slides immediately to a small black storage box, label box and store in nitrogen chamber.

Slides are now ready for labeling and hybridization.